The A. & M. College Register

Motto: "Lifting as We Climb"

Entered at Postoffice Greensboro, N. C., as second-class mail matter
Vol. 3, No. 27 Issued Monthly by

The State Agricultural and Mechanical College

For the Colored Race

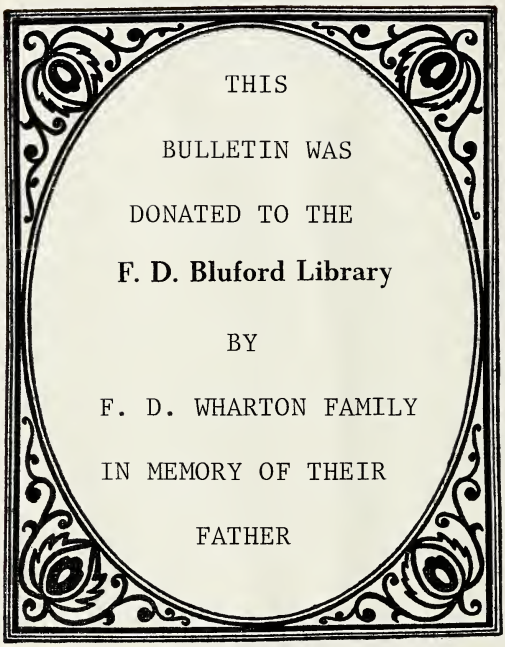
GREENSBORO, NORTH CAROLINA



A young man who cannot spend time to examine this catalogue pays a high price for the time saved

CATALOGUE NUMBER 1907-1908

PUBLISHED BY THE COLLEGE. MAY, 1907


THIS
BULLETIN WAS
DONATED TO THE
F. D. Bluford Library
BY
F. D. WHARTON FAMILY
IN MEMORY OF THEIR
FATHER

ANNOUNCEMENTS.

1. Medical Fee.—Every student lodger must pay one dollar medical fee. There will be no further charges for medical attention; but this fee does not include expenses for medicine.

2. Vaccination.—Each student will be required to be vaccinated on entrance unless he can show doctor's certificate proving that vaccination is unnecessary.

3. Lodging Deposits.—On account of limited accommodations, students can secure room at once by paying one dollar for September lodging. In case of sickness or inability to attend, the one dollar will be refunded provided application for its return is made before September 1, 1907.

4. Free Tuition.—Each Senator and Representative can recommend two students for free tuition. Upon the endorsement of a county Representative or Senator, we will give a student his tuition free for one session. Free tuition does not mean free board and lodging. These two items cost $6.00 per month.

5. Special Examinations.—Entrance examination and examinations for the removal of conditions are held September 2nd to 7th. All students with conditions should avail themselves of the opportunity, as special examinations are *not held* during the session and no conditions will be removed except during the examination weeks.

CALENDAR FROM JUNE 1, 1907, TO MAY 31, 1908.

1907

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1907–'08

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CONTENTS

Calendar 6

Trustees and Faculty 7-8

General Information

Historical Sketch 11

Location 14

Admission 16

Expenses 16

Rules Governing Classification 18

Rules and Regulations 22

Outline of Courses of Study 25

Academic Department 27

Department of Agriculture and Chemistry 35

Mechanical Department 55

Department of Industries 85

Night School 89

Medals and Prizes 90

Organizations 93

List of Students 97

List of Graduates 106

Examination Schedule for Session 122

Schedules—

Fall Term 123

Winter Term 124

Spring Term 125



THIRTEENTH ANNUAL CATALOGUE

OF THE

STATE AGRICULTURAL

AND

MECHANICAL COLLEGE

FOR THE COLORED RACE

GREENSBORO, NORTH CAROLINA

1907-1907

Greensboro, N. C.:
Stout Brothers, Book and Job Printers
1907

September 2-7—Entrance examination and examination for removal of conditions.
September 7—Registration Day.
September 9—Fall Term begins.
November 30—Fall Term ends.
December 2—Winter Term begins.
February 29—Winter Term ends.
March 2—Spring Term begins.
May 17—Baccalaureate Sermon.
May 21—Commencement.
June 1 to August 31—Vacation.

HOLIDAYS.

Thanksgiving Day.
Fall Term Holiday, November 30.
Christmas Vacation.
Winter Term Holiday, February 29.
Washington's Birthday, February 22.

SPECIAL DAYS.

Arbor Day (day after Thanksgiving)—Special programme by Department of A. & C.

Douglas' Birthday, February 14 and Lincoln's Birthday, February 12—Special programme on 14th for both.

Morrill's Birthday, April 14—Agri. & Mech. Societies have special programme April 17th.

BOARD OF TRUSTEES.

First Congressional District—W. R. Williams, Pitt county.

Second Congressional District—

Third Congressional District—W. J. Newbury, Duplin county.

Fourth Congressional District—W. D. Siler, Chatham county.

Fifth Congressional District—J. I. Foust, Guilford county.

Sixth Congressional District—C. Miller Hughes, Cumberland county.

Seventh Congressional District—C. C. Cranford, Randolph county.

Eighth Congressional District—W. L. Kluttz, Rowan county.

Ninth Congressional District—J. O. Alexander, Mecklenburg county.

Tenth Congressional District—M. W. Bell, Cherokee county.

MEMBERS AT LARGE.

Geo. W. Dunlap, Stanley County.
W. A. Darden, Pitt County.
J. B. Minor, Guilford County.
R. W. Morphis, Rockingham County.
M. C. S. Noble, Orange County.
C. G. Rose, Cumberland County.
W. A. Enloe, Jackson County.

OFFICERS OF TRUSTEE BOARD.

M. C. S. Noble, Chairman, Chapel Hill, N. C.
S. A. Kerr, Secretary, Greensboro, N. C.

FACULTY AND OFFICERS FOR 1907-8.

JAMES B. DUDLEY, President.
S. A. KERR, Secretary and Treasurer.

English Department.

JAMES B. DUDLEY, A. M., LL.D., Head of English Dept.
C. H. MOORE, A. B. Assistant.
S. P. SEBASTIAN, Assistant.

Agricultural Department.

JOHN H. BLUFORD, B. S., A. M., Director.
W. F. ROBINSON, B. Agr., Assistant, Florist.

Dairy Department.

P. E. ROBINSON, B. Agr., Director.

Mechanical Department.

CHARLES W. PIERCE, B. S. E. E., Director.
C. D. ROBINSON, B. S., Instructor in Drawing and Wood Turning.
W. N. NELSON, A. B., Assistant Instr. Manual Training.
J. A. BATEN, Instructor in Masonry.
WM. YATES, Instructor in Tinning.
———————— Blacksmithing.

Department of Industries.

J. W. LANDRETH, Director.
JUNIUS ROOKS, Steward.

J. E. DELLINGER, M. D. College Physician.

THE
Agricultural and Mechanical
COLLEGE
FOR THE COLORED RACE

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The leading object of the institution is declared by the Act to be instruction in practical agriculture, the mechanic arts and such branches of learning as relate thereto.

The management and control of the College and the care and preservation of all its property is vested in a Board of Trustees, consisting of sixteen members, one from each Congressional District and six at large, who are elected by the General Assembly for a term of six years.

The Trustees, by the Act of the Legislature, have power to prescribe rules for the management and preservation of good order and morals at the College; to elect the president, instructors, and as many other officers and servants as they shall deem necessary; have charge of the disbursements of the funds, and have general and entire supervision of the establishment and maintenance of the College.

The Board is empowered to receive any donation of property, real or personal, which may be made to the College, and have power to receive from the United States the proportion of funds given to the institution for agricultural and mechanical training.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived, for the most part, from the United States, under an Act of Congress, known as the "Morrill Act," passed August 20, 1890. This Act makes an annual appropriation for each State and Territory for the endowment and

support of Colleges for the benefit of agriculture and mechanic arts to be applied "only to instruction in agriculture, the mechanic arts, the English language and the various branches of mathematics, physical, natural and economic sciences, with special reference to their application in the industries of life and to the facilities of such instruction."

The College also receives an appropriation from the State greater than the Federal appropriation, for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

The citizens of Greensboro donated fourteen acres of land and $11,000, to be used in construction of buildings. In 1893 this was supplemented by an appropriation of $10,000 by the General Assembly. The main building, one of the finest school edifices in North Carolina, was completed in 1893, and the school opened in the fall of that year. A large dormitory, which cost $6,000, and a green-house have been added.

In the summer of 1895, the Mechanical Building, a large two-story brick structure, 38 by 119 feet, was erected at a cost of about $9,000. This building, by the expenditure of about $7,000, has been supplied with probably the finest and most modern equipments of any school in the State.

The Trustees invite the careful consideration of the colored people of North Carolina, particularly the educators among them and leaders of thought, to the grand opportunities offered by the State, aided by the United States, to the colored youths to thoroughly equip themselves for the battle of life, to prepare to successfully work their way as "breadwinners" and to secure honorable independence, carrying with it the highest type of American citizenship. Brain and hands are here educated together.

Fully 80 per cent. of the colored people in this State live in the country and subsist on agriculture. The future of the colored race in the South depends upon the

ownership of farm lands and their intelligent and skillful treatment by colored farmers. This field is free from competition and race feeling. Owners of large tracts of land now yielding nothing will be only too glad to rent them to the skilled farmer who graduates from an agricultural college, and also to provide him with stock and implements of husbandry.

The young man who leaves this College, with honor, a good character and a well-trained mind, who is familiar with science and art relating to his calling in agriculture, mechanics or any of the trades, will not be compelled to canvass the country seeking employment. Capital will be looking for him to place him in charge of lands and stock, to handle machinery and direct unskilled labor. Wherever skilled labor is found among producers, turning the wheels of industry that increase the wealth of the world, there will be found graduates of the Agricultural and Mechanical College.

North Carolina is an agricultural State. Her manufacturing interests are increasing in a wonderful manner; her mineral resources are great, and the future of wealth lies in the hands of men who will guide her plow, care for her live stock, economically use her forests, drive her machinery, harness up her water powers and manufacture her iron and other products. The men who can do this *best* will be those who will qualify themselves for the work by a course in the Agricultural and Mechanical College.

There can be no rivalry between this College and other institutions of learning for the colored race in North Carolina. The paths to be pursued lead in different directions.

The Agricultural and Mechanical College for the Colored Race is unsectarian, and is under the control of no particular denomination. Religious and moral training will receive the closest attention, and students will be required to attend churches of which they are members.

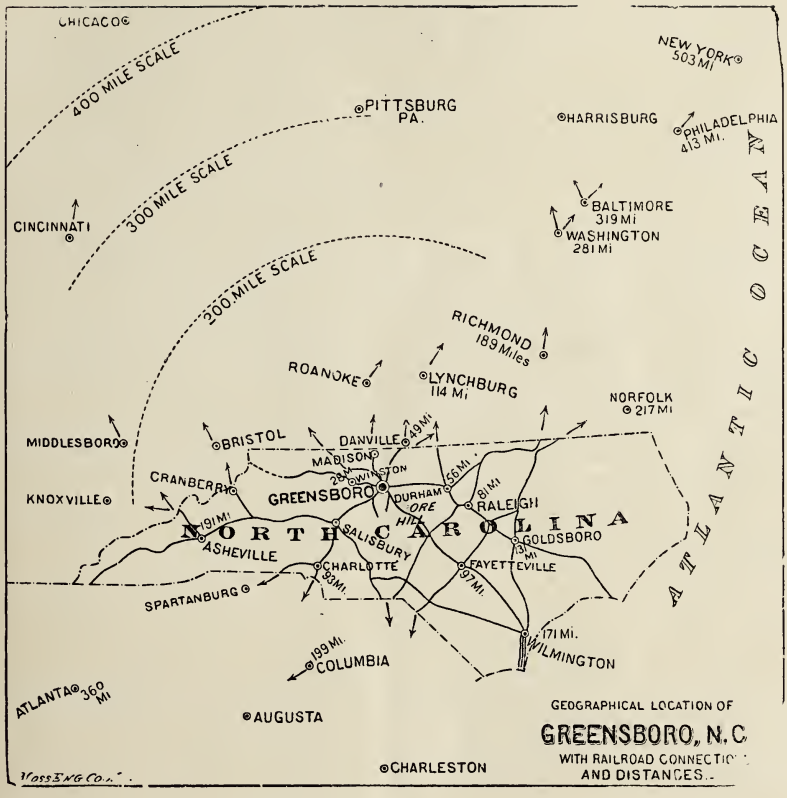
Ministers of all denominations are invited to interest themselves in the religious welfare of the College.

The College, broad in its purpose, practical in its work, elevating in its influences, is intended to assist and strengthen the colored people in all their efforts for industrial and intellectual advancement. As such, its peculiar mission must commend it to the intelligent colored men and women of the State, from whom the Trustees and Faculty confidently expect such sympathy and support as will enable them to make the College of inestimable value to the people for whom it was instituted, as well as to the government by which it is fostered.

LOCATION.

It is most fortunate for the colored people that their Agricultural and Mechanical College was located in the prosperous and growing city of Greensboro. Its unsurpassed railroad facilities place it in rapid and direct communication with nearly all sections and make it the most accessible town in the State. From almost every section of the State Greensboro can be reached without change of cars. With the North Carolina Railroad, the Northwestern North Carolina Railroad, the main line of the Southern Railway, and the Atlantic and Yadkin Railway, Greensboro is a railroad centre, with fifty daily train arrivals and departures, which add greatly to the comfort and convenience of students and the traveling public generally.

Possibly nowhere in the State does as kindly inter-racial feeling exist and as friendly an attitude on the part of the white citizens toward Negro education obtain as among the liberal-minded people of Greensboro. On every hand local sentiment is found to be kind, encouraging and responsive. Parents, educators and public men generally can possibly more confidently appreciate the friendly and liberal feeling prevailing in Greensboro by reverting to the significant fact that when the question



GEOGRAPHICAL LOCATION OF

GREENSBORO, N. C.

WITH RAILROAD CONNECTIONS AND DISTANCES.

of subscribing $11,000 for the location of this institution in Greensboro was submitted to its citizens, but one man voted in opposition thereto.

ADMISSION.

The requirements for admission into the Agricultural and Mechanical College, which is the complement of the public schools of the State for the colored people, have been regulated by the average scholarship of the advanced students of these schools.

Applicants must be in good health and not under 16 years of age; must understand fairly well the forms and rules of the English language, must know addition, subtraction, multiplication and division of whole numbers, and have a knowledge of geography and history.

Students who have completed the eighth grade in the grammar schools will be admitted without examination.

A student otherwise qualified may be allowed to elect certain studies from the regular courses already provided in the College if no inconvenience result to the regular classes.

Each student desiring admission should present a recommendation from the school last attended.

TUITION.

Tuition is one dollar per month, payable in advance.

A limited number of students from each county will be allowed free tuition. For further information on this subject, address the President.

EXPENSES.

Although it is the aim of the College to furnish as much empolyment as possible to assist students in defraying expenses, no promise or guarantee can be made in advance to furnish such work.

Positively no student will be allowed to enter any department of the College without paying in CASH the first month's expenses, as stated below.

No student should expect to enter any department of the College unless he has at least one-half the total amount necessary to defray his expenses during the time of his attendance.

MONTHLY PAYMENTS.

Tuition, per month	$1.00
Lodging—use of room, bedding, etc., per month	1.00
Board, per month	5.00

SPECIAL PAYMENTS.

Incidental Deposit	$1.00
Laboratory Fee, per term	25
Workshop Fee, per term (see Mechanical Dept.)	50
Dining Hall Fee, per year	1.00
Medical Fee, per year	1.00

These charges are payable strictly in advance.

Any student not paying the charges exacted by the College will be excluded from all classes until settlement is made.

Students at the time of the advance payments will be given tickets, which will admit them to class-rooms, workshops and dining-hall when countersigned by heads of the Departments, the Steward, and President.

In addition to the above expenses the cost of text-books must be considered. This will amount to about $12.50 per year.

Free tuition or county students will pay $1.00 per month less than the above.

Students who are absent for less than two weeks will not be allowed a reduction of charges

Board, lodging, medical, tuition, and incidental deposit must be paid to the Treasurer before the rooms are assigned and tickets of admission to class-rooms, workshops and dining-hall are issued.

In addition to the above charges each student will be required to give at least three hours work per week.

SUPPLIES.

Each student must bring a hairbrush and comb, a change of sheets and pillowcases and counterpanes, plainly marked.

All students must furnish books, stationery, drawing pencils, thumb tacks and medicines.

Each student must keep on deposit $1.00 to cover any charges which may be made against him for damages done.

From the standpoint of neatness and economy in dress each student should supply himself with a regular uniform as soon as convenient. These uniforms, including cap, which are of a very neat design, can be purchased through the college for $11.00.

RULES FOR GOVERNING CLASSIFICATION.

I. Regular students must take a minimum of fifteen hours of credit work per week at least three of which shall be industrial or manual training work.

II. Examinations for the removal of conditions will be held at no other time than the regular term examination periods.

III. Students making an average of 70 per cent. or more will be passed; over 85 per cent., passed honorably. Students will not be promoted from one class to a higher class who have more than *two conditions* in any preceding class.

IV. Student candidates for graduation will be required to pass a satisfactory examination in all the subjects in their respective courses.

V. Any student failing to secure 50 per cent. of the total marks obtainable during any term, will be required to take a lower class or sever his connection with the College and be allowed to return the following session.

GRADUATION.

Students graduating from the Trade School Courses are entitled to Certificates.

Students are entitled to a Diploma of the College upon the completion of the prescribed courses.

Candidates for graduation from the College, in addition to the work outlined in the catalogue, must have practical experience in field work, either at the College or elsewhere, as shall appear in reports from responsible persons.

DEGREES.

Students graduating from the Agricultural Course shall be entitled to the degree of Bachelor of Agriculture.

Students graduating from Mechanical Course shall be entitled to the degree of Bachelor of Science.

GENERAL INFORMATION.

Students desiring assistance in defraying expenses, as far as possible, will be allowed to work at the rate of 5 to 7½ cents per hour, for which they can get credit each month at the time of their advanced payment.

Students who have shown themselves exceptionally efficient, willing and trustworthy workers may, at the discretion of the head of department, receive a maximum rate of 12½ cents per hour. Students receiving aid by labor which they may secure at the College are requested to observe: (a) That credit on school expenses and not money, will be allowed for student labor, except when such exceed his school expenses; (b) that credit cannot be transferred from one student to another.

The Department of Industries operated by the school affords opportunity for needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student, and especially a new one, would earn per month. This largely depends upon

his individual application and energy. All can earn something each month, while the most industrious and energetic student will regularly earn more than his expenses.

Students, upon their arrival in Greensboro, must report immediately to the President for a permit for examination and registration.

Each student upon applying for admission, will be required to sign a pledge, binding obedience to the rules of the College. Parents and guardians are particularly requested to examine our Rules and Regulations, to be found on another page of this catalogue.

It will be the purpose of the College to maintain a high moral tone and to develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A., which meets twice a week for song and praise. A special service will be conducted in the chapel each Sunday by pastors representing the different denominations of the city. All religious services will be free from sectarianism.

There are two flourishing literary societies, which greatly stimulate the development of character and the training of the intellect. These offer facilities for practice in debate, oratory, declamation and essay writing; the members become practically familiar with parliamentary law and usage. The faculty, by presence and advice, will seek to encourage these societies. Membership will be optional. The Faculty will also encourage the organization of technical societies, in which special objects in connection with agriculture, mechanics and chemistry, will be considered in a manner conducive to independent thought and research.

Students whose parents or guardians do not live in Greensboro or its immediate vicinty, will be required to room and board in the College—except when the consent of the Faculty has been secured by the written request of the parent or guardina. Consent will only be given, however, when the judgment of the Faculty directs that

it can be done, with safety; as the College cannot, nor does it desire to, wholly rid itself of the responsibility out of school hours of the conduct of students who do not room and board in the College.

The *industrial* part of each course of instruction applies to all students, *and none will be excused therefrom.*

LIBRARY AND READING ROOM.

A large and convenient room on the second floor in the main building has been arranged for a Library and Reading Room. The books have been purchased with great care and new ones are being added from time to time.

Col. T. B. Keogh, a former member of the Board of Trustees, made a valuable donation of books to the Library.

Reading rooms are also provided in the Agricultural and Mechanical buildings, where technical journals and books are kept for the convenience of students in these departments.

The Reading Room and Library tables are supplied with some of the best periodicals and the leading newspapers of the State. The students of the College are allowed to borrow books, periodicals and papers under necessary limitations. The Library and Reading Rooms are open every week day from 9 a. m. to 1 p. m., and from 2 to 6 p. m.

INDUSTRIAL MUSEUM.

An Industrial Museum has been started and already valuable material has been collected. A number of donations have been made by several firms. We are especially indebted to the Standard Oil Company, of Chicago, Ill., for important samples illustrating the manufacture of gasoline, petroleum and lubricating oils of all grades; also to the German Kali Works for typical potash salts from famous Stassfurt mines in Germany. The Ameri-

can Enameled Brick and Tile Company have also sent us a number of fine specimens of tile, brick and terra cotta goods. Specimens of students' work have been contributed by the various departments each month.

RULES AND REGULATIONS.

1. The signal for rising will be given at 5:45 a. m. Dressing and arranging rooms, 5:45 to 6 a. m. Prayer, 6:15. Breakfast, 7 to 7:30 a. m. Drill, 8 to 8:30. Chapel, 8:30 to 9 a. m. Morning session, 9 to 1 p. m. Dinner from 1:15 to 2 p. m. Afternoon session, 2 to 4 p. m. Recreation, 4 to 6 p. m. Supper 6 to 6:30 p. m. Study, 7 to 9:30. Night school session, 7 to 9:30. Evening prayer, 9:30. Retiring signal, 9:45 p. m. Lights out, 10 p. m.

2. Strict attention must be given to cleanliness and deportment. Each student is required to keep his room in good order and subject to inspection at any time, and to conduct himself at all times in a gentlemanly manner. To attain and maintain a high moral standard is one of the prime objects of this institution, and any student known to have vicious habits or indulge in vulgar language will be deemed an unfit associate and will be expelled from the College. Untruthfulness or dishonesty in any form will not be tolerated. Students guilty of such offences will be promptly dismissed.

3. Students shall promptly attend prayers and chapel services and all specific recreations, class and instruction work. Tardiness, or absence from these duties, will, when not excused, subject a student to demerits. Loitering within the main building by the students is prohibited.

4. Students who interrupt the quiet and order of College life by noises in or near the buildings or who commit intentional damage to College property, or who make nuisance by throwing slops near the buildings or otherwise, will not be allowed to room on the grounds.

5. Students who persistently absent themselves from

chapel and class work, or who persistently neglect college duties, or who absent themselves from College grounds contrary to Rules and Regulations, are not regarded as desirable companions for industrious meritorious students, and will not be allowed to continue as students in the College.

6. Students must attend some church on Sunday morning. Parents or guardians should designate to the President of the College what church they wish their sons or wards to attend.

7. Any student shooting or having on his person, in his room, or on the College premises, rifles, spring guns, fire arms or deadly weapons of any kind whatsoever will be given 25 demerits.

8. The use of tobacco, spirits, malt or vinous liquors in any form by the students is prohibited on, or in the neighborhood of the College grounds, or in the buildings. Students are forbidden to enter any disreputable house, including places where intoxicants are sold, while absent from the College grounds.

9. Students are forbidden to go upon the roofs of buildings, or to enter or depart from buildings through windows, and they are also forbidden to enter the kitchen store-rooms or pantry. Students are prohibited from entering the dinig-room, except at meal time.

10. Strict discipline will be enforced in the dining-room during meals. Students guilty of ill-mannered conduct in act or speech will be removed from the dining-room and punished for insubordination.

11. Students are forbidden to receive visitors in the dormitory building.

12. At all times the students shall deport and express themselves respectfully toward the Faculty and every member of it and also toward their fellow students. Any deficiency in this particular will be punished. A student failing to respond to any reasonable demands by

any member of the Faculty shall be held guilty of contempt and punished accordingly.

13. No student will be retained after he has received thirty-four demerits in any one term of a session.

14. Every new student must be vaccinated before entrance, or present a doctor's certificate showing that he has been vaccinated within two years.

15. A student cannot remain in good standing in any department when dismissed from another.

16. No diplomas shall be given to any student who is in debt to the College.

17. Any student found guilty of any species of dishonesty shall be dismissed or expelled, at the discretion of the Faculty.

18. Any student absenting himself from class one-third of the time during any month, without excuse, shall be dismissed.

19. Students and visitors are not permitted to walk on grass plots. Students will be demerited for this offence.

By order of THE BOARD OF TRUSTEES.

RELIGIOUS CULTURE.

While the College is not a denominational institution, proper attention is given to the cultivation of a broad, liberal Christian spirit. At 8.30 a. m., each school day short devotional exercises are attended by all students. Short devotional exercises are held each evening, which are attended by the boarding students. In the direction of religious culture, in addition to these very brief meetings and the fuller meetings of the Y. M. C. A., and the A. & M. College Sunday School, during the past session we have enjoyed a splendid series of instructive and spiritual sermons, for which we are indebted to the following named reverend gentlemen:

Rev. M. L. Baldwin, Congregational Church, Greensboro.

Rev. B. P. Hairston, St. Matthew's M. E. Church, Greensboro.

Rev. W. R. Tolliver, Providence Baptist Church, Greensboro.

Rev. J. H. Harris, Mt. Sinai Baptist Church, Greensboro.

Rev. A. G. Poole, Bethel A. M. E. Church, Greensboro.

Mr. John Byers, Greensboro.

Dr. J. P. Morris, Bennett College.

Rev. T. D. Atkins, Shiloh Baptist Church.

President S. A. Peeler, Bennett College, Greensboro.

Rev. S. S. Sevier, Greensboro.

Rev. J. G. Walker, Presbyterian Church, Greensboro.

OUTLINE COURSE OF STUDY.

FRESHMAN YEAR CLASS—FALL TERM.

A. M.—Arithmetic, 6; English, 6; Agriculture, 3; History, 3; Music, 3; Material of Construction, 3.

P. M.—(Greenhouse, 2; Shop, 6; and Drawing, 2) or (Greenhouse, 2; Shop, 4; and Drawing, 4.)

WINTER TERM.

A. M.—Arithmetic, 6; English, 6; History, 3; Chemistry, 3; Reading and Spelling, 3; Material of Construction, 2; Music, 1.

P. M.—(Greenhouse, 2; Shop, 6; Drawing, 2; or Greenhouse, 2; Shop, 4; Drawing, 4.)

FIRST YEAR CLASS—SPRING TERM.

A. M.—Arithmetic, 6; English, 6; History, 3; Word-building, 3; Physiology, 3; Material of Construction, 2; Music, 1.

P. M.—(Greenhouse, 2; Shop, 6; Drawing, 2; or Greenhouse, 2; Shop, 4; Drawing, 4.)

SOPHOMORE CLASS—FALL TERM.

A. M.—Algebra, 6; Breeding, 3; English, 6; Physiology, 3; Building Construction, 3; Bookkeeping, 2; Dairying, 1.

P. M.—Shop Work, 6; Drawing, 4.

WINTER TERM.

A. M.—Algebra, 6; English, 6; Study of the Breeds, 3; Arch Design, 3; Veterinary Science, 3; Veterinary Practice, 1; Bookkeeping, 2.

P. M.—Shop Work, 6; Drawing, 4.

SPRING TERM.

A. M.—Algebra, 6; English, 6; Veterinary Science, 2; Estimating, 1; Market Gardening, 3; Bookkeeping, 3; Stock Judging, 3.

P. M.—Shop Work, 6; Drawing, 4.

JUNIOR CLASS—FALL TERM.

A. M.—Physics, 6; English, 6; Geometry, 6; House Planning, 6.

P. M.—(Agricultural Students)—Chemistry, 6; Dairying, 4. (Mechanical Students)—Shop Work, 6; Drawing, 4.

WINTER TERM.

A. M.—Physics, 6; English, 6; Geometry, 6; House Planning, 3; Heating and Ventilating, 3.

P. M.—(Agricultural Students)—Chemistry, 6; Dairying, 4. (Mechanical Students)—Shop Work, 6; Drawing, 4.

SPRING TERM.

A. M.—English, 6; Geometry, 6; Agricultural Physics, 6; Physical Geography, 6. Mechanism—Specification, 3; Plumbing, 3; Contracts, 3; Electric Lighting, 3.

P. M.—(Agriculture—Chemistry, 6; Orchard Practice, 4. Mechanics—Shop Work, 6; Drawing, 4.)

SENIOR YEAR CLASS—FALL TERM.

A. M.—English, 6; Solid Geometry, 6. (Agricultural Students—Entomology, 3; Farm Management, 3; Agr. Physic, 3; Bact., 3.) (Mechanical Students—Architecture, 6; Mechanism, 6.)

P. M.—Agricultural Students—Agricultural Chemistry, 6; Market Gardening, 4. Mechanical Students—Shop Work, 6; Drawing, 4.

WINTER TERM.

A. M.—English, 6; Trigonometry, 7. (Agricultural Students—Chemistry: Quantitative Analysis and Organic, 8; Botany, 3). (Mechanical Students—Mechanism, etc., 9; Shop Work, 2).

P. M.—Agricultural Division—Entomology, 6; Feeds and Feeding, 4. Mechanical Division—Shop Work, 6; Drawing, 4.

SPRING TERM.

A. M.—Trigonometry, 6; Civics, 3; English, 3; Thesis, 3. Agricultural Division—Agricultural Chemistry, 6; Feeds, 3. Mechanical Division—Machine Shop, 6; Strain Diagram, 3.

P. M.—Agricultural Division—Field Practice, 6; Quantitative Analysis, 4. Mechanical Division—Shop Work, 10.

THE ACADEMIC DEPARTMENT.

JAMES B. DUDLEY.
C. H. MOORE.
S. P. SEBASTIAN.

English Grammar. The aim is to enable the student to speak and write the English language correctly. Recognizing the fact that grammar drill develops in students' logical habits of thought, besides giving them greater command of language, special attention will be given to the analysis and construction of sentences and the principles of elementary composition.

U. S. History. The leading facts, causes and sequences showing the growth of our country and national history, will be studied with a view to develop true patriotism.

Other Branches of Study. Instruction is also given in Spelling, Reading, Writing, Geography, Bookkeeping and Civics.

GEOGRAPHY.

COURSE I.—A course in Geography of the United States. British America, Mexico, Central America, West Indies, South America.

COURSE II.—Europe, Great Britain and Ireland, Asia, Africa, Australia and Oceania. Maury's Manual Geography is the text-book used.

ENGLISH.

PROFS. JAS. B. DUDLEY AND C. H. MOORE, *Instructors.*

FIRST YEAR—FALL TERM.

COURSE I.—Six hours. The Sentence. The Paragraph, Dictation Exercises. Abbreviations. The Comma. Constructions, Oral and Written Compositions.

WINTER TERM.

COURSE II.—Course I. required. Six hours. The two parts of a Statement, Proper and Common Names. When to use Capital Letters, Number and Progressive Forms, Words that Describe, Transitive and Intransitive Verbs, Composition Work.

SPRING TERM.

COURSE III.—Course II. required. Six hours. Letter Writing and other Composition Exercises. Book: Hyde's, Part II.

SECOND YEAR—FALL TERM.

COURSE IV.—Course II. required. Six hours. The Sentence, Subject and Predicate, The Different Parts of Speech, Phrases and Clauses.

WINTER TERM.

Course V.—Course IV. required. Six hours. Sub-division of Parts of Speech and Inflection, Syntax, Structure and Analysis of Sentences.

SPRING TERM.

Course VI.—Course V. required. Six hours. Composition Work and the Study of the English Language. Book: Buehler's.

THIRD YEAR—FALL TERM.

Course VII.—Course VI. required. Six hours. The Art of Writing English, Grammatical Phrases of Writing English, Organizing the Theme, Choice of Words, Composition Work.

WINTER TERM.

Course VIII.—Course VII. required. Six hours. Source of English Vocabulary, Letter Writing, Reproduction, Abstract, Narration and Description, Exposition and Argument. Book: "First Book in Writing English."—*Lewis.*

SPRING TERM.

Course IX.—Course VI. required. Six hours. English Composition and Word Building. Advanced Parsing and Analyses.

FOURTH YEAR—FALL TERM.

Course X.—Course VI. required. Six hours. English Composition, Logic (complete). Text-book: W. S. Jevons.

WINTER TERM.

Course XI.—Course VI. required. Six hours. Political Economy (complete). Text-book: W. S. Jevons.

SPRING TERM.

COURSE XII.—Course VI. required. Six hours. Evangeline (Longfellow), Julius Cæsar, The Vicar of Wakefield, and other works as may be selected by teacher from best American authors. Thesis work.

Throughout the courses IV. and XII. the reading matter from the best authors, preferably Whittier, Poe, Longfellow, Dunbar, and best foreign authors will be selected by teacher for the class. Some of which will be learned for recitation and explanation.

BUSINESS COURSE.

S. P. SEBASTIAN, *Instructor.*

Second Year.

FALL.

COURSE I.—Double Entry—Study of Debits and Credits, Study of the various accounts, Capital, Cash, Merchandise, Personal, Profit and Loss, Journal, Ledger and Trial Balance Books, Balancing and Closing of Accounts. Commerical Correspondence—Study of Business Papers and Letters, Modes and Forms of Expressions, Instruction as to Filing Letters and Papers.

WINTER.

COURSE II. Posting, Ruling, Balance Sheet, Pass Book, Writing Checks, Closing Ledger, Partnership, Exercises in Commercial Correspondence.

COURSE III. Closing out of a Business. Resources and Liabilities, Commercial Law and Business Papers. Contracts—Construction, Arrangements, Essential Elements, Persons Competent to Make Contracts. Partnership—Advantages and Disadvantages, Rights,

Duties. Corporations—Powers and Liabilities, Advantages, Formation, Laws Governing Them. Agency—How Created, Principal—his Duties, Rights and Liabilities; Agent—his Duties, Rights and Liabilities. Negotiable Papers—Notes, Bonds, Money Orders, Drafts, Endorsements, Protest, Duties of Holder. Legal Papers—Deeds, Deeds of Trust, Mortgages, General Principles Governing Same.

Text Book for Bookkeping—The Twentieth Century Bookkeeping and Office Practice, J. W. Baker, Knoxville, Tenn. Practical Law. Ellis Publishing Co.

CIVICS.

J. B. Dudley, *Instructor.*

SPRING TERM—FOURTH YEAR.

Course I.—Constitution of the United States and of North Carolina, General Duties and Responsibilities of Citizenship, etc. Three hours given to Fourth Year Class.

PREPARATORY CLASS.

S. P. Sebastian, *Instructor.*

FALL.

Course I.—Writing: Writing from Dictation, Transcription.

WINTER.

Course II.—Composition, consisting of Simple Combinations, Punctuation, Reproduction of Narratives, Letter Writing, Essays.

SPRING.

Course III.—Essays, Paraphrasing, Commercial Correspondence, etc.

FALL.

Course I.—Arithmetic: Fractions, Simple and Decimal.

WINTER.

Course II.—Fractions, Compound Numbers, Equations, Metric System.

SPRING.

Course III.—Longitude and Time, Practical Measurements, Problems involving principles of session work.

FALL.

Course I.—Geography: The Map, Time, Natural Features (Peoples, Animals, Vegetation, Minerals of the Earth).

WINTER.

Course II.—Political Geography—Towns, Counties, States, Countries, America, Map Drawing.

SPRING.

Course III.—Europe. Asia, Africa, Australia, Their Natural and Political Divisions, Productions, Inhabitants, etc.

FALL.

Course I.—English: Grammar, Orthography, Parts of Speech, Inflections, Parsing, Reading.

WINTER.

Course II.—Inflections continued, Conjugations, Sentences, Analysis of Sentences, Derivaties, Word Building.

SPRING.

Course III.—Prosody—(The Different Kinds of Verses) Reading best American Authors. Recapitulation of Session Work.

Every Tuesday evening, 8 to 9, a lecture will be given

by an instructor on the "Study of Words," Plants, Minerals; Government, Citizenship, Business, and such subjects of interest, for the improvement of the class.

DEPARTMENT OF AGRICULTURE AND CHEMISTRY.

J. H. Bluford, *Head of Department.*
P. E. Robinson, *Assistant.*
W. F. Robinson, *Florist.*

In this department thoroughly practical instruction is given in the various arts and sciences pertaining to agriculture, so as to enable the student to intelligently understand the nature of soils, fertilizers, plant growth, feedings, breeding, farm drainage, methods of cultivation, plant and animal diseases, etc. We aim to train not only the hand and the eye, but we endeavor also to train the mind; in other words, we train the youths to become rational farmers.

All our class-room work finds its complement either in the field, the garden, the green-house, the orchard, the barn, the dairy, or the chemical laboratory.

EQUIPMENT.

Recognizing the importance of good farm machinery and labor-saving devices, the College has purchased and received as donations from a number of firms a considerable amount of farm machinery, such as different kinds of plows, harrows, cultivators, a seed drill with a fertilizer attachment, a corn harvester, and various tools and machines for market gardening.

The dairy is well equipped with modern apparatus for butter making, such as United States Cream Separator, De Laval Separator, seven Acme Bail Churns, one Davis Swing Churn, seven Lever Butter Workers, one Eclipse Refrigerator, a Boyd Cream Ripening Vat, a Babcock Milk Testing Machine, Aerator, etc., thus enabling us

to offer the very best course in butter making. We have recently added apparatus and utensils for cheese making for home consumption.

A ninety-ton silo has also been erected for which silage is raised every year. A St. Albans Shredder is used for cutting up the ensilage and a corn harvester is used for cutting the corn in the field.

The farm is stocked with a good herd of milch cows.

Different crops such as wheat, oats, cow peas, sugar beets, sorghum, millet, mangel wutzel, potatoes, alfalfa, tobacco, cotton, rape, vetch, clover, and various other forage crops, are grown on the farm, and the student obtains practical experience in the cultivation of such crops with the latest and best farm machinery.

Experiments are also being carried on, on the farm, illustrating the effect of different methods of cultivation and fertilization of several crops. Variety tests are also made. This experiment work is carried on by the students in the advanced classes.

The green-house is maintained to aid the student in the study of Botany and care of flowers. Instruction is also given in the management of a Green-house on a commercial scale.

Market gardening is practised on a small scale for the purpose of giving the student practice in the management of early truck lands.

The chemical laboratory is well equipped with suitable apparatus and necessary chemicals for the study of general as well as agricultural chemistry.

Among the most expensive apparatus may be mentioned Hoffman's apparatus for decomposition and recomposition of water, fat extraction apparatus, chemical balances, soil analysis apparatus, hot plates, copper, air and water baths, apparatus for analysis of baking powders, water analysis, etc.

In short, the equipment of the department is first-class in every respect, and in some lines it is perhaps second to that of no other institution in the State.

While the equipment for the work in Physics is not so complete as that in Chemistry, the Department has made and purchased sufficient apparatus to illustrate on the lecture table the more important laws of Physical Science. The equipment consists of a Lever Air Pump with oxydized brass barrel and accessories, an Atwood's machine, Port Lummere and Stereoptican for projection work, a set of Vacuum and Spectrum Geissler tubes containing residuum gases, Ruhmkorff Induction coil, a Hoffman's Graduated Eudiometer, an assortment of batteries and Leyden jars for induction and distribution of electricity, compound microscopes, pulleys, balances, pumps, sonometer and a general assortment of lecture table apparatus. The lecture room can be made dark at any time for illustration with the stereoptican or Port Lummere. The lecture table is fitted with water, gas and electricity.

The department has recently purchased some of the latest apparatus for Soil Physics which includes a ball-bearing balance, 50 cc. flasks with ground glass stoppers drawn out to an open capillary tube for specific gravity work; brass tubes 12½x1⅞ inches inside measurement for the determination of volume weight, apparent specific gravity and porosity of soils, apparatus to determine the power of loose and compact soils to retain moisture a set of brass tubes 16x1⅞ inches inside measurement to show the rate of percolation of water through soils; a set of galvanized iron cylinders set in water jackets to show the effect of mulches or evaporation of water from soil; and a set of five glass tubes, 30x1⅞ inches inside measurement, for determining the capillary attraction of soils.

A detailed description of the courses offered by this department follows:

DESCRIPTION OF COURSES.

A.—Industrial Courses—Practical Horticulture.

FALL TERM—MR. W. F. ROBINSON.

COURSE I.—GREENHOUSE MANAGEMENT. Two hours. Required Course III. English. First year students.

Practical work is given in the care and management of greenhouses. Students are required to grow and care for various flowers, such as carnations, roses, hyacinths, freesias, narcissus, etc., as well as various foliage plants, like ferns and palms.

WINTER TERM—MR. W. F. ROBINSON.

COURSE II.—PROPAGATION OF PLANTS. Two hours. Required Courses I. Industrial and III. English Given alternately with Course III.

Practice is given in making cuttings, in potting, rooting, grafting, budding, etc. The student is also taught how to prepare various fungicides and insecticides, how and when to apply them.

SPRING TERM—MR. W. F. ROBINSON.

COURSE III.—MARKET GARDENING. Three hours. Required Courses I. Industrial and III. English.

Practice is given in transplanting plants from the greenhouse or cold frames to the field. Attention is also given to raising early vegetables on a commercial scale.

FALL TERM—MR. P. E. ROBINSON.

COURSE I.—CARE OF LIVE STOCK. Two hours. Required Course III. English.

The student is required to go into the various barns of the college and obtain practice in feeding cows, horses, hogs, chickens, etc.; to learn various methods of feeding and to make records of feeding experiments, to study the milk records and compare same with the various types of dairy cows.

WINTER TERM—MR. P. E. ROBINSON.

COURSE II.—MILK AND CREAM TESTING. Four hours. Required Course III. English.

The student is taught how to test milk and cream; he is made familiar with the Babcock test for fat; he is also expected to test milk for adulterants, determine its specific gravity, total solids, the amount of water it contains, and is required to make at least two tests of each cow in the herd. He also becomes expert in testing cream for acidity according to, at least, two methods.

Lectures and recitation work will be given on the composition, secretion and production of milk.

FALL TERM—MR. P. E. ROBINSON.

COURSE III.—BUTTER MAKING. Four hours. Required Courses II. Industrial and III. English.

Thorough drill is given in butter-making according to the most improved methods. Considerable drill is also given in making neat and attractive packages, in storing and scoring butter, ripening cream, etc.

SPRING TERM—MR. P. E. ROBINSON.

COURSE IV.—MANAGEMENT OF DAIRY. Three hours. Required Courses III. Industrial and III. English, I. and II. B. C.

The student is expected to go into the dairy and take charge of the work under the supervision of the instructor. He receives instruction in the care and management of separators and obtains more practice in butter-making.

B.—Courses in Agriculture.

FALL TERM—PROF. BLUFORD.

COURSE I.—ELEMENTARY PRINCIPLE OF AGRICULTURE. Three hours. Open to all. Daily.

This term's work is designed to give the student a bird's-eye view of the whole field of agriculture in an

elementary way. It will be freely illustrated by experiments. Text: Elementary Agriculture, Burkett, Stevens and Hill.

FALL TERM—MR. W. F. ROBINSON.

COURSE II.—PHYSIOLOGY. Six hours.

In addition to recitation work, the student is required to cut up one or more animals and study the various organs in detail. Text: Hutchinson's Physiology and Hygiene.

SPRING TERM—PROF. BLUFORD.

COURSE III.—PHYSICAL GEOGRAPHY. Six hours. Open to all.

The course is illustrated by means of lantern slides and experiments. Text: Tarr's Physical Geography.

FALL TERM.

COURSE IV.—BREEDING. Six hours. Required Courses III. English and II. Agriculture.

Such subjects as atavism, variation, selection, heredity line breeding in and inbreeding are discussed. Collateral reading required. Text: Breeding.—*Shaw.*

FALL TERM.

COURSE VII.—ENTOMOLOGY. Six hours. Required Courses II. Horticulture and VI. English.

The subject is taught by means of lectures and the student is required to read upon topics assigned him by the instructor. The most common insects and insectitudes are studied.

SPRING TERM—MR. P. E. ROBINSON.

COURSE V.—BACTERIOLOGY. Six hours. Required Courses II. Horticulture and Chemistry.

Lectures are given on the nature of bacteria, their relation to other plants, supplemented by laboratory work.

SPRING TERM—MR. W. F. ROBINSON.

COURSE VIII.—FORAGE. Three hours. Required Course VI. English.

Lectures are given on the adaptability of the various crops that can be successfully and profitably grown in North Carolina to special soils, methods and seeding; preparation of seed bed and pasturing are also discussed. Collateral reading required.

SPRING TERM—PROF. BLUFORD.

COURSE IX.—PLANT DISEASES. Three hours. Required Course VII. Agriculture.

Lectures and laboratory work. Common diseases, such as the cereal nests and insects; diseases of cotton, tobacco and fruit trees are studied with the aid of the compound microscope.

WINTER TERM—PROF. BLUFORD.

COURSE X.—FEEDING. Five hours. Required Courses III. Agriculture and V. and VI. Chemistry.

The laws of nutrition and the composition of animal bodies are briefly discussed. The composition and digestibility, market and food value of the various food stuffs are discussed. Nutritive ratios and the practical application of same in compounding rations for the various farm animals are carefully considered. Collateral reading required. Text: Feeding of Animals.—*Jordan.*

FALL TERM—MR. P. E. ROBINSON.

COURSE XI.—VETERINARY SCIENCE. Four hours. Required Course XI. Agriculture.

The common diseases of farm animals are briefly discussed, together with remedies for same. Some practical work in caring for sick animals is also provided the student. Text: Veterinary Elements.—*Hopkins.*

SPRING TERM—PROF. BLUFORD.

COURSE XII.—METEROLOGY.. Two credits. Required Course XII. Agriculture.

Movements of the atmosphere, character of wind, cyclones, tornadoes, thunderstorms, and weather forecasting are discussed.



C.—Courses in Physics.

J. H. Bluford, *Instructor.*

Course I.—Three hours. Course III. Mathematics required.

The work of the first term consists of five lectures and recitations per week, the subject covered being Mechanics, Hydraulics, Hydrostatics and Pneumatics. The lectures are fully illustrated, and the practical applications of principles clearly pointed out. Full notes are required, and also some reference work.

Course II.—Heat, Magnetism and Electricity. Three hours. Course I. Physics desired. Course IV. Mathematics.

These subjects are discussed in an elementary way, and the fundamental principles are illustrated.

Practical work is done in wiring and hanging electric bells. Special attention is given to the various kinds of galvanic cells, their uses and relative values. The course is made as practical as possible, so that a student on leaving the college can take up the work of electrician.

Course III.—Sound and Light. Three hourses. Course II. desired, V. Mathematics.

This is a continuation of Courses I. and II. and the same methods are adopted. Sound is treated briefly, but light is given a greater proportion of time so as to familiarize the student with the construction and mechanism of the most important optical instruments and the part played by it in animal and vegetable growth.

Course IV.—Agricultural Physics. Five credits. Required. Courses III. Physics and V. Chemistry and I. Mechanics.

The power of soils to retain moisture, effect of deep and shallow cultivation, methods of constructing farm

buildings, ventilation, road making, draft of wagons and plows, etc., are fully discussed. Text: Agricultural Physics.—*King.*

Course V.—Physical Laboratory Work. Three hours. Courses I. II. and III. required.

This work is designed to fix the principles learned in the previous lectures firmly in mind by performing the experiments used on the lecture table.

Subjects: Mechanics of Masses, Liquids, Gases, Heat, and Electrical Measurements.

Course VI.—Agricultural Physics Laboratory Work. Two hours. Courses I. II. and III. required.

This course will accompany Course IV. with detailed experiments to show the rate of percolation of water through soils; capillary attraction; effect of different kinds of mulches; determination of specific gravity and specific heat; and the mechanical analysis of soils. The department has been recently equipped with the latest apparatus for soil work.

D.—Courses in Horticulture.

SPRING TERM—PROF. BLUFORD AND MR. W. F. ROBINSON.

Course I.—Botany. Five credits. Desired Course I. Horticulture.

Such subjects as how the plant takes up food from the soil and the atmosphere; the effect of sunlight, air and moisture on plants are noted, diseases of plants and remedies for same are discussed in an elementary way. Given in connection with Course I. Agriculture. Text: Elementary Botany.—*Bailey.*

WINTER TERM—MR. W. F. ROBINSON.

Course III.—Propagation of Plants. Three credits.

Method of propagating plants by cutting, stalons, suckers, layering seed, etc., are discussed. The princi-

ples underlying budding, grafting and pruning are also discussed. Text: Principles of Plant Culture.—*Goff.*

WINTER TERM—MR. W. F. ROBINSON.

COURSE IV.—SMALL FRUIT CULTURE. Two credits. Required Courses III. Horticulture and III. English.

Methods of propagating and cultivating various kinds of small fruit are discussed, together with the preparation of soil for same.

SPRING TERM—MR. W. F. ROBINSON.

COURSE V.—MARKET GARDENING. Three credits. Required Course IV. Horticulture.

A study of the different crops adapted to market gardening and adapted to North Carolina is made. Construction and management of hot beds, cold frames, special fertilizers for vegetable crops, packing, shipping and marketing are also considered. Text: Vegetable Gardening.—*Bailey.*

SPRING TERM—MR. W. F. ROBINSON.

COURSE VI.—POMOLOGY. Two credits. Required Courses IV. Horticulture and VI. English.

Planting of fruit trees, tilling and fertilizing fruit lands. Planting and caring for orchard, picking, packing, storing and shipping fruit are discussed. Text: Fruit Growing.—*Bailey.*

WINTER TERM—MR. W. F. ROBINSON.

COURSE VIII.—LANDSCAPE GARDENING. Two credits. Required Course VI. Horticulture.

Principles of embellishing landscapes, planting and management of woodlands, management of forests are discussed. Text: Landscape Gardening.—*Maynard.*

E.—Courses in Chemistry.

WINTER TERM—PROF. BLUFORD.

COURSE I.—GENERAL CHEMISTRY. Three credits. Required Course II. Physics.

Lectures are given on general chemistry, and experiments are performed before the students in the lecture room, which bear directly on and pave the way for Agricultural Chemistry.

SPRING TERM—PROF. BLUFORD.

COURSE II.—GENERAL CHEMISTRY. Three credits. Required Course I. Chemistry.

Lectures and laboratory work. The student goes into the laboratory and carries on experiments for himself, illustrating the principles he has learned in the lecture room. Text: Mimeographed Notes.

FALL TERM—PROF. BLUFORD.

COURSE III.—QUALITATIVE ANALYSIS. Three credits. Required Course II. Chemistry.

Laboratory work. During this term the student becomes familiar with testing and especially the elements which enter into the composition of plant and animal life.

WINTER TERM—PROF. BLUFORD.

COURSE IV.—QUALITATIVE ANALYSIS. Two credits. Required Course III. Chemistry.

Laboratory work. Qualitative analysis completed, acids. Text: Appleton's Qualitative Analysis.

SPRING TERM—PROF. BLUFORD.

COURSE V.—AGRICULTURAL CHEMISTRY. Two credits. Required Course IV. Chemistry.

Lectures on the chemical composition of soils, plants

and animals. The function of the various elements necessary for plant growth, and the various compounds for animal nutrition are discussed.

FALL TERM—PROF. BLUFORD.

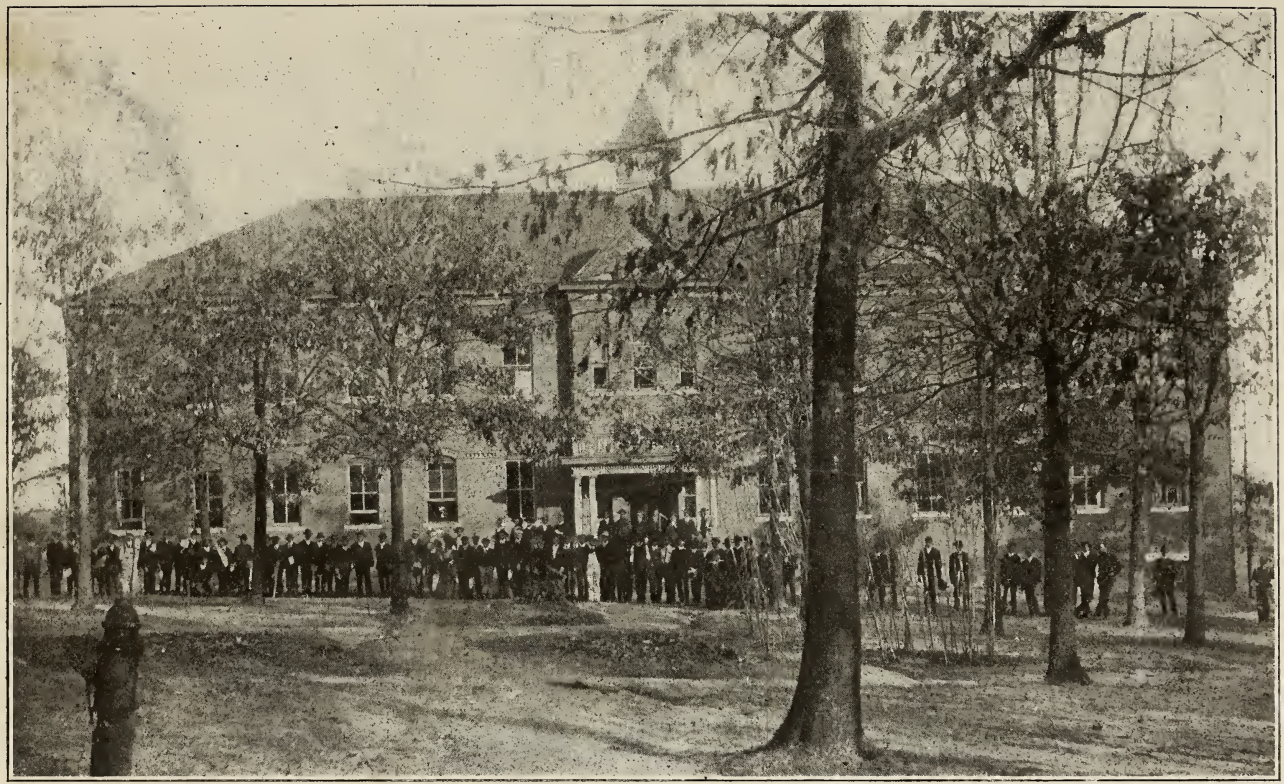
COURSE VI.—QUANTITATIVE ANALYSIS. Five credits. Required Course IV. Chemistry.

Instruction is given in the analysis of soils, fertilizers and feeding stuffs, the object to acquaint the student with the chemical composition of soils, fertilizers and feeding stuffs, so that he may intelligently make use of reports and bulletins of experiment stations dealing with the chemical composition of various agricultural products.

SPRING TERM—PROF. BLUFORD.

COURSE VII.—ANIMAL TOXICOLOGY. Two credits. Required Courses I. II. II. and IV. Chemistry.

Lectures are given on the poisonous plants and insects injurious to stock; the symptoms of poisoning; the pigments, insecticides, matches and vermin poison; the sources, elimination, and antidotes of stock poison, etc.



Mechanical Building.

DEPARTMENT OF MECHANICS.

CHAS. W. PIERCE, *Head of Department.*
C. D. ROBINSON,
Assistant and Instructor in Shops.
W. N. NELSON,
Instructor in Wood Working and Painting.
WM. YATES,
Instructor in Tinsmithing.

Instructor in Blacksmithing.

Instructor in Broom Making.
J. A. BATEN,
Instructor in Bricklaying, Plastering and Stonefitting.

There are two most valuable possessions which no search warrant can take away, no reverse of fortune destroy. They are what is put into the brain, knowledge; and into the hand, skill.

The work in this department is designed to give the student such a combination of knowledge and skill that he may be something more than an ordinary mechanic or an impractical theorist.

From the beginning of the first year the time is divided between the lecture room, draughting rooms and shops. Students will be given an opportunity of visiting the various manufactories in and around Greensboro, and every lecture and exercise will be illustrated as far as possible, and the practical application pointed out.

It is recognized at the outset that a knowledge or how to make and read drawing is necessary to success in mechanical work, and further that both practical knowledge and mathematical science are necessary in preparing any reliable drawing or interpreting the same. The courses as laid down are designed to make the student familiar with either machine shop practice, or building design construction.

The Trustees and Faculty have decided that the first

two year's work in this department shall be conducted as a trade school.

The first and second year students will, therefore, select the special line they wish to pursue, and will be required to continue in that special work during the two years. After that time, those who wish to graduate from the institution, will be given an opportunity for instruction in the other shops and will perfect themselves in mathematics, science and drawing.

EQUIPMENT.

This department is well equipped for the work in hand and other machinery will be added from time to time as required.

The department building is a substantial modern structure, two stories and basement. On the first floor are the joinery, wood-turning shop, tin shop, machine shop and model room; in the basement of the rear wing is the smith shop, brick-masonry shop, wood-working machine shop, with stock room, and adjoining this is the boiler and engine rooms.

The lecture room can be made dark at a moment's notice and the sunlight used to illustrate on a permanent screen. Water and power are at hand for use, also gas. A dark room is fitted up for photographic use and for experiments requiring it.

In mechanics, a full collection of materials of construction will be provided, so that students can study them from observation as well as from text. A museum of models in mechanism and construction has been begun and will be added to as required. A reading room is provided in the building, well supplied with books of reference and technical journals. This is open at all times to the students. The equipment in drawing consists of tables, drawing boards and T squares. Students will provide themselves with instruments, which will be arranged for at lowest rates; also paper, pencils, ink, and entire

set of drawing tools may be rented for 75 cents per term if paid in advance.

In free-hand drawing a full set of models with a sufficient number of tables is provided. Alcoves are arranged for teaching shading, and the rooms are well lighted and heated.

The wood-working shop is equipped with twelve double benches, provided with patent vises and stops, twenty-four complete sets of joiners and wood-workers' tools. Each set is arranged in a neat wall case, having a glass door and combination lock. Each student in wood-working has a set of tools and is responsible for them. There is also a large case of tools for the instructor and for general use. The shop is also supplied with a 36-inch band saw, a surface planer, a universal wood-worker, with attachments for sawing, ripping, dadoing, jointing, tenoning and boring, a swing-saw, a pattern maker's lathe, twelve small turning lathes, an emery wheel and a grindstone.

The machine shop is equipped with six engine lathes, shaper, drill-press, vises, test plates and a full assortment of hand tools.

The forge shop is equipped with twelve patent, down-draft Buffalo forges, each having an anvil, set of tongs, flatters, fullers, etc., also slack-tub and coal box. The blast for the forges is supplied by a 40-inch fan, placed in the corner of the shop and connected to the main shaft. The smoke is exhausted by the same fan and forced out at the side of the building. There is also one portable hand forge for use when the machinery is not running. Two work benches, supplied with vises, stock and dies, taps, files, etc., also a mandrel sledge, and leather aprons, complete the equipment in this shop.

The power plant consists of a 30-horse-power Root water tube boiler of latest design, and a 35-horse-power Skinner automatic engine of the latest pattern. There are also two smaller engines for experimental and farm work. The exhaust steam is used for heating when the

shops are running. All accessories, such as steam feed pump, feed water heater, oil separator, reducing and back-pressure valves, etc., are in constant use.

A central heating plant is being installed in the Mechanical Building for the heating of the buildings of the college. This will add the following equipment to the plant: One 125-horse-power boiler, one Worthington 200-horse-power double acting pump, steam and vacuum gauges, vacuum pump, feed water heater, etc.

The Westinghouse Electric & Manufacturing Company, of Pittsburg, has presented us with a sixty-light direct current dynamo; also a complete set of incandescent and arc lights.

This dynamo is in process of installation and when fully installed will be used for lighting the buildings of the college and for instruction in Engineering.

A marble switchboard, mounted with the necessary measuring instruments and appliances, has been added to the plant during the last year.

The tin shop is fully equipped with machines for doing all kinds of tin work, and this shop supplies the cans for the canning industry carried on in other departments and around vicinity, machines for ornamental work, such as cornices, gutters, finials, etc., will be added as soon as necessary.

Several important machines have been added to the equipment during the past year, and as the shop has been moved to the first floor of the Mechanical Buliding the work of the shop has been very much improved.

Instruction in the following trades has been provided:

Architecture.

Blacksmithing and general repairing.

Horseshoeing.

Tinsmithing.

Broom-making.

Wood-turning.

Bricklaying and Plastering.

Wheelwrighting.

Painting and Decorating.
Machinist Work.
Heating, Plumbing and Gas Fitting.
Stationary Engineering and Firing.

Students in this department will begin free-hand and mechanical drawing in the Fall term of the first year. They will be required to make a regular graduate set of models and exercises in the various lines they pursue, from drawings furnished by the departments, after which they will design their own work, under the supervision of the instructors in charge. All work will be executed from drawings in order to familiarize the student with the preparation of and reading the same.

The course in mechanical drawing will be varied to suit the different trades and will be as practical as possible.

Advanced students will be required to do considerable technical reading, under the direction of the professors in charge, and the third and fourth year men will be required to write at least two technical essays during each term. These will be read at the bi-weekly meetings of the students of the department held to hear lectures on technical subjects and to discuss the papers read. A full line of technical journals will be on file for the use of students, and the books in the department library are always accessible for reference.

Students, candidates for graduation in this department will, at least, do thirty hours of shop-work, eighteen of which must be in one line of work.

A special course of two years will be given students taking wood-turning as a trade.

Text-book will be required on all trades in the Mechanical Department, and an examination will be given in the same at the end of each term.

Text-books will be required on all trades in the Mechan-

Text-books of all class room work will be purchased by the students.

Students must supply themselves with books and instruments.

Tools must be purchased by students:

Machine Shop.—Thread gauge and prick punch, steel scale and scratch awl, screw pitch gauge.

Blacksmith Shop.—Apron and cap, one foot rule, one calipers.

Tin Shop.—Dividers, ruler, scratch awl and aprons.

Carpenter Shop.—Cap, apron, dividers, jack-knife pencil and rule.

Wood-turning.—Cap, apron, dividers, pencil and rule.

Bricklaying.—Overalls, cap, trowels, square and rule.

Broom and Shoe Shops.—Aprons, rule, pencil and knife.

Special Courses.

FIRST YEAR.

COURSES I., II., AND III.—MATERIALS OF CONSTRUCTION. Two hours.

These courses cover one year and are given as illustrated lectures, with models and specimen whenever possible. The kinds and qualities of materials used for building purposes are studied.

SECOND YEAR.

COURSE IV.—BUILDING CONSTRUCTION. Two hours.

This course offers an opportunity for the theoretical and practical study of Architectural and Engineering problems involved in building construction. The proper design of buildings with regards to strength of each member is considered.

COURSE V.—ARCHITECTURAL DESIGN. Three hours.

The work of this course consists of a series of problems in design, with a critical review of each design after its completion. The designs are pencil sketches which the student will be required to do both in class and for preparation for classes. The instructor will supplement

the work of the student with lectures and special reading that he will assign to the students.

Course VI.—Estimating.

The work of this course will be practical and is designed to familiarize the student with the cost of articles made in the different shops, and extending it later to buildings, etc. The different grades of material, the length of time which it takes to complete the work and the profit are considered. The students are required to verify their estimates whenever practical in the shops.

THIRD YEAR.

Course VII.—House Planning. Six hours.

The work includes the drawing of plans, elevations and details of construction work. The simpliest problem in house construction are first taken and the students are required to make more complex designs as they proceed with the course.

Course VIII.—Heating and Ventilating. House Planning.

The course comprises lectures and a further study in house planning, with the various methods of heating and ventilating buildings. The systems of heating are developed from the fireplace to the most modern systems of the day. In connection with the course the students may take practical work in steam-fitting and tin work adapted to furnaces and stoves.

Course IX.

This course consists of lectures in Plumbing, Electric house lighting and later the proper contracts and specifications for a building. In Plumbing the various methods for disposals of sewerage and drainage are explained. In Electric Wiring the requirements of the National Board of Fire Underwriters are studied and discussed. The form of contracts and specifications are explained. Sets of drawings and specifications are given for estimate and specification work outlined.

The department has arranged a number of special

courses in the different trades and also in Steam Engineering, which students may take by special permission. The courses of the department are selected that have particular values to the study the student desires to take. Our equipment makes it possible for an excellent course in Steam Engineering; also with Electrical Wiring, Steam Fitting, Plumbing and Sheet Metal work.

FOURTH YEAR.

Course X.—Architecture. Six hours. Course IX. Drawing. Two lectures per week. One term.

The subjects will comprise Egyptian, Grecian, Roman, Byzantine, Romanesque, Gothic and modern styles. Their history, development and constructive features will be brought out, and the drawing will serve to illustrate and fix the same in the minds of the students. Students desiring to take the lectures only, may do so, receiving one hour credit. Open to third and fourth year students.

FOURTH YEAR.

Course XI.—Photography. Two hours.

This work consists of practical amateur work in handling the camera, developing dry plates, blue printing and silver printing, and mounting of prints. Practice in lantern slidework is also given, and practical work in enlarging or reducing for this purpose, is required. This course is not intended to produce photographers, but is an adjunct in mechanical work. Open to Seniors only, except by special permission.

Course XII.—Mechanism. Six hours. Course VI. Mathematics required.

The work consists of recitations and drawing exercises, illustrating the various principles of mechanism. This work paves the way to intelligent machine designing, and is required of those taking advanced work in machinery.

Shop Fees.

No charge is made for the use of tools or apparatus, but a small fee, 50 cents per term, to cover cost of ma-

terial, is charged.

Students are held responsible for tools, instruments and apparatus used.

Drawing.

FIRST YEAR.

COURSE I.—FREE-HAND. Four hours. One term.

Flat copy, including squares, circles, symmetrical figures and conventional forms are taught during the first term. Eighteen plates will be required, three of which are original designs by the student.

COURSE II.—FREE-HAND. Four hours. Course I. desired, but not required. One term.

Perspective and sketching from models is taught during the first part of this term, and shading of solid forms afterward. Twenty plates are required for passing.

COURSE III.—FREE-HAND. Four hours. Course II required. One term.

The work of this term consists of sketching from miscellaneous objects, both from nature and mechanics. Special attention is also given to the preparation of free-hand work in drawings. Elevations, perspective, sections and details of machines and parts are required to be made. All work is original, no copies allowed. Eight plates required.

SECOND YEAR—PROF. W. N. NELSON.

COURSE IV.—INSTRUMENTAL DRAWING. Three hours. Course open to all. One term.

Instruments and text. This work begins with the use of instruments, their care and special attention. The student also studies practical Geometry from text and draws the problems as described. All work is neatly traced in ink and carefully lettered. Fifteen plates required.

COURSE V.—PROJECTION. Two hours. Course IV. required. One term.

The science of representing objects according to the standard methods of projection is taught in this course. The use and nature of the scale is also given at this time. The work comprises lectures and exercises in regular plan and elevation work, also in isometric projection. Fifteen plates are required, five of which must be original.

Course VI.—Two hours. Course V. required. One term.

The work of this course will consist of special lessons in connection with the various trade courses. The application of Courses IV. and V. will be made to the needs of the manual training work. Fifteen plates are required, five of which must be original.

Course VII.—Elementary Construction. Two hours. Courses III. and VI. required.

This course consists of occasional lectures, with exercises in drawing of various construction details in the several trade courses, especial attention being given to building and machine work. Students are required to make careful scale drawings of the problems given, and to keep notes of the lectures. Twelve plates will be required for passing.

Course VIII.—Elementary Construction. Two hours. Course VII. required.

Lectures and drawing. Continuation of Course VII. Color work, both pencil and brush, will be introduced in this course. Detailing will also be taught. Eighteen plates required.

FOURTH YEAR.

Course IX.—Two hours. Course XI. required.

This will consist of advanced design with full working details for same. Practice in taking of quantities and making estimates will be given. Outline specifications will be required in this term.

Course X.—Two hours. Mechanics, History of Architecture; Course XII. required.

Advanced architectural designs, including perspective

and color drawing, complete sketches, working drawings and specifications are required; also complete estimates and quantities.

Arithmetic.

FIRST YEAR—FALL TERM.

COURSE I.—Six hours. Percentage, Interest, Stocks and Bonds. Proportional parts, Partnership.

WINTER TERM.

COURSE II.—Six hours. Powers and Roots, Mensuration, Compound Proportion, Exchange, Measures of Temperature, Specific Gravity.

SPRING TERM.

COURSE III. Six hours. General review of Courses I. and II. Introduction to Algebra.

Applied Mathematics.

SECOND YEAR.

COURSE I.—ALGEBRA. Six hours. Course VI. in Arithmetic required.

This course comprises the elements of Algebra through quadratics. All unnecessary matter is left out, and the application of each principle is pointed out. The first term takes the work to fractions. Text: Milne's Elements.

COURSE II.—ALGEBRA. Six hours. Course I. in Algebra required. Text as above.

Beginning at fractions and completing simultaneous equations.

COURSE III.—ALGEBRA.

Beginning at involution and completing quadratic equations.

THIRD YEAR.

Course IV.—Plane Geometry. Six hours.

Wells' Elements are used in this course, omitting many propositions not easily applied. This course completes Book I.

Course V.—Plane Geometry. Six hours. Completing books II. and III.

Course VI.—Plane Geometry. Six hours. Completing books IV. and V. and general review.

FOURTH YEAR.

Course VII.—Solid Geometry. Six hours. Completing books VI., VII. and VIII.

Course VIII.—Trigonometry. Six hours.

Course IX.—Trigonometry. Six hours.

Blacksmithing.

Course I.—Six hours. No requirements. Elective.

The work of this course consists of learning the names and uses of tools, building and managing fires, forging and shaping iron. All work is done from drawings, and the student is required to complete at least fifteen models of the prescribed course before credit is allowed.

Course II.—Six hours. Course I. and Course II. drawing required.

Welding iron is taught during this term, and a full exposition of the art given. The student is required to work from models and drawings, and fifteen exercises must be submitted. Bolt and nut making are also given in this course.

Course III.—Forging, Welding and Tempering Steel. Six hours. Course II. and Course III. drawing required.

This work is intended to give the student a knowledge of working steel in various forms. The making of laid in edge tools, tempering springs, hammers, cold-chisels,

cutters, drills, etc., is fully illustrated and the student encouraged to make tools for his future work. Students preparing for machine shop work are required to make a full set of lathe tools, cold chisels and hammer for their future machine shop work. Ten models required.

COURSE IV.—HORSESHOEING. Six hours. Course III. drawing, Course III. B. S. required. One term.

The making of shoes for various special uses will be taught during this term, and reasons given for each form. The anatomy of the hoof is also studied, and wrong methods pointed out. The student will also receive instruction in general repairing of farm machinery.

A set number of models will not be required in this year, as students in the last year of their trade work are expected to be sufficiently interested in their work to employ their time to best advantage.

Wood-Working.

COURSE I.—JOINERY. Six hours.

Students in this work are required to take Courses I. and IV. in drawing.

The use of the plane, tri-square, gauge saw and chisel are exemplified and the general care of edge tools explained. Fifteen models from drawings required to pass.

COURSE II.—Six hours. Course I. and Courses I. and IV. drawing required.

The brace and bit are introduced in this course, and also the level square; practice in mortising and mitering is given; grinding and setting planes are taught. Fifteen models; ten copies, five original.

COURSE III.—Six hours. Course II. and Course II. and V. drawing required.

This term is given to practical application of principles learned. Jointing and gluing are taught, and dovetailing; saw filing and setting also is required of each student. All work to be done from student's designs.

Course IV.—Six hours. Courses II. and III. required.
Course V.—Six hours. Course IV. required.

Wood-turning, face-plate work, turning rosettes, cups, rings, balls, etc. Then models from copy and ten from original designs required.

Course VI.—Six hours. Course V. required.

General construction work in carpentry or joinery or cabinet work. All work to be made from student's own designs.

Machine Shop.

Course I.—Two hours. Courses III. and VI. drawing, III. Blacksmithing required. First term.

The work of this term will be given mainly to chipping and filing. No time will be spared to fully fix in the mind of the student the value of the tools used in this work and the names of the same. Ten models required to complete the course.

Course II.—Lathe Work. Three hours. Courses I. machine work and VII. drawing required.

During the time in this course the student will be taught how to centre different shaped objects and the various outs made by an engine lathe. Some knowledge of how to use the drill and reamer on live and dead centres. Ten models required, including one original piece.

Course III.—Drilling Machine. Three hours. Courses II. machine work and drawing required.

Laying out work by brickmarks and lines will be given special attention. Drilling of different kinds of material with certain speed will occupy much of the time in this work. Speeds and feeds for different size drills must be carefully studied. Ten models will be required to complete this course.

Course IV.—Blanks for Gears and Thread Cutting, Interior and Exterior. Three hours. Courses III. machine work, IX. drawing required.

Blanks for gears of various sizes and positions will be cut and faced on the lathe. Addendum line will be found by student. Threading of different kinds of material, both interior and exterior diameters, together with worms and cylinder cams, will constitute the bulk of the work of this course. Ten models required, three of them original.

Course V.—Shapes Week. Three hours. Courses IV. machine work, X. drawing required.

The work of this course will be original throughout, and no student will be allowed more than four models and not less than two, except in very difficult problems. The work will include gear cutting and the general assembly of parts of complete machines.

Tin Work and Pipe Fitting.

Wm. Yates, *Instructor.*

Course I.—Six hours. No requirements.

The work of this course consists of familiarizing the student with the various tools, machines and materials used in the trade, and in cutting and plain soldering. Making cans, cups, etc., from patterns is required of the student for passing.

Course II.—Three hours. Course I., and I. and IV. drawing required.

Continuation of Course I., introducing sheet iron work riveting, bending, guttering, making joints, elbows and Ts from furnished patterns.

Course III.—Three hours. Course II. required.

Constructing general tinware from student's own patterns. Six models required. Principles of flat and standing seam working also taught.

Course IV.—Three hours. Courses III. and VI. drawing; III tinwork required.

Cornice work, stamping, brazing, working from original designs of student.

Course V.—Five hours. Course IV. required, and VII. Drawing.

Pipe-fitting, joining cast iron, wrought iron, brass and lead pipes, use of pipe machine, stocks and dies, cutters, etc., is taught, and reasons given for methods used.

Course VI.—Three hours. Course V. required.

Furnace work, ornamental tin and sheet metal work, exhibition work.

Bricklaying.

Course I.—Two hours.

In this course spreading mortar, use of materials and instruments excavating and grading will be given in its practical ways. Excavating for drains, dry wells, furnace pits, air ducts, etc., to be given special attention. Theory.

Course II.—Two hours.

This course will cover the use of plumb rule, bob and square, brick and concrete footings, specifications for stone work, foundation walls basement piers, mortar, external walls and rubble. Theory at interval.

Course III.—Two hours.

This course will cover, anchors and clamps, cleaning and painting walls, bonding of all kinds will be given special attention, laying out of walls, angles, corner piers, plumbing and leveling.

Course IV.—Two hours.

Cutting and fitting bricks to suit angle, corners and footing laying out and building chimneys.

Course V.—Two hours.

This course will prepare the student to construct all classes of arches and hollow walls. The use and advantage of the arches and walls will be given special attention, colored mortar, chimneys, flue lining, timbles, and cold air ducts, radius line and arch-board. Theory and practice.

Course VI.—Two hours.

In this course fire walls, ventilators, setting iron work, setting cut stone, terra cotta, and specifications for lay-

ing masonry in freezing weather will be given, stack building, furnace work. Theory and practice.

Course VII.—Two hours.

This course will be a reviewing of the preceding courses and specifications for fire proofing and terra cotta trimming will be given students in its simplicity, running cornices, parapet walls, striking arches, jointing, speed contest in spreading mortar and laying brick.

Course IX.—Two hours.

In this course students are taught how to use pressed brick, trowel, and mortar, laying pressed brick, coloring mortar, building pressed brick pilasters, cornices and the use of the eye in plumbing.

Course X.—Two hours.

In this course students are taught laying out of buildings in full, reading from plans, calculating of materials, calculating of daily work, of brick in polygons, frustum, circular cesspools, and conical brick-work.

Course XI.—Two hours.

Use of the theodolite and rod, reading of the rod, how to find the rise and fall in foundations and in drains with the theodolite and rod calculations.

Course XII.—Two hours.

Superintendence, how to keep employees busy, how to avoid mistakes, the treatment of walls in freezing and rainy weather.

Lathing and Plastering.

Course I.—Two hours.

This course shall cover the kind of material used, how mixed for good quality work, one coat and three coat work will be discussed, the use of the tools and application of mortar to wall, furring and lathing.

Course II.—Two hours.

In this course, band finish, hard finish, white coat, pebble dash, will be given, use of the derby and float, screed and larry.

Course III.—Two hours.

This course will compromise specifications for both metal and wood lath, how to put on both iron and wood walls, lime wash, white wash and filling.

COURSE IV.—Two hours.

In this course students are taught use of finishing tools, molds, jointing rule, stopping and pricking tools and pargeting stamps.

COURSE V.—Two hours.

In this course students are taught, running of cornices, making molds and designs, distempering and calsomining.

COURSE VI.—Two hours.

Stucco, sgraffito, scagliola, calculation and superintendence.

Stone Fitting.

COURSE I.—Two hours.

Excavation, "lay out" of rubble work, grades of rubble work, use of sprawl hammer, line practice.

COURSE II.—Two hours.

Ashlar work, rubble work with brick-quoins, dressed joints, coursed and broken ashlar; kinds of stones.

COURSE III.—Two hours.

Finished stone work, use of the pean hammer, points, chisels, pitching tool, bull set, how to edge work.

COURSE IV.—Two hours.

Use of the bush hammer, and chisel, how to lay edged work, squaring and edging stones.

COURSE V.—Two hours.

Winding, draft lining, rock facing, broaching, fine pointing and bush hammering.

COURSE VI.—Two hours.

Beveling, water tabling, angle fitting, making of lintel and skewbacks, calculation and superintendence.

Wheelwrighting.

COURSE I.—Two hours.

This course will cover making of spoke gauge, travel-



Exhibit at Central Carolina Fair, 1905.



Johnson Bros., Dairymen (A. & M. Graduates).



ing wheel, anvil clamp, and light tools to be made by students.

COURSE II.—Two hours.

Setting up of wheel, reaming spokes and fitting rim.

COURSE III.—Two hours.

Different styles of rim finish, grades of hubs, and why used. Details and specification.

Broom Making.

FIRST YEAR.

COURSE I.—Two hours.

Names of tools used in manufacture of brooms, kinds of material, dyeing and separating of the hull from the inside.

COURSE II.—Separating No. 1, hull from No. 2 hull and No. 1 inside from No. 2 inside.

All grades of materials will be used and special attention is given in selecting material for high-grade brooms.

COURSE III.—COTTING AND STEMMING. Two hours.

This is to give the student knowledge of how to build up the inside of the broom and to make it stout, long or short.

SECOND YEAR.

COURSE IV.—WIRING AND STITCHING.

COURSE V.—FANCY WORK.

DEPARTMENT OF INDUSTRIES.

J. W. LANDRETH, *Head.*

This department is run primarily from a commercial point of view to accomplish a three-fold purpose, viz:

To give revenue to the college.

To give employment to needy and deserving students.

To supplement by practical work the theoretical instruction of the class room.

The department comprehends the following industries:

Broom Factory. The broom factory is equipped with all the necessary machinery for converting the broom-



corn, raised on the farm, into the most useful article of the household—the broom. The college finds a ready market for the output of the factory in its immediate vicinity.

Brick Yard. The brick yard is equipped with a power brick machine made by J. C. Steele & Sons, Statesville, N. C., a repress for making pressed brick, two Steele's patent trucks, back boards and brick covers. The machinery is propelled by a 25-horse-power Atlas automatic engine of the latest design and a 30-horse-power Atlas return tubular boiler of the newest pattern. There is also a dry kiln in course of construction which will, when completed, enable the plant to be operated during the entire year.

The Farm. A farm of 125 acres, is well stocked, and equipped with the most improved farm machinery and labor-saving devices. Corn, wheat and potatoes are the most important crops, while vegetables are grown to such an extent as the market demands.

A ninety-ton silo has been erected which is filled with corn silage each year which is cut in the field with a corn harvester and cut up for the silo by a St. Alban's shredder.

The Greenhouses. The college has three greenhouses: one for forcing a variety of flowers, such as roses, hyacinths, freesias, ferns, narcissus, palms and other rare plants; another, used exclusively for the forcing of carnations for market, and a third, for forcing early vegetables.

The Dairy. The dairybuilding and apparatus for instruction purposes are also used by the Department of Industries for the separation and bottling of milk for market and for manufacturing butter and cheese. The college has a herd of thirty-eight cattle.

The Piggery. The piggery is well equipped and modern. It is stocked with pure bred and high-grade Berkshires and Poland-China hogs.

NIGHT SCHOOL.

In order to extend the usefulness of this institution as far as possible among young men who are without means or friends to assist them, a night school will be conducted that will permit students to work during the day and attend school at night. While the opportunities for advancement in the night school will not be equal to those of the day school, the best that the conditions will permit will be given, and students attending the night school may eventually arrange to enter the day school. Courses completed in the night school receive the same credit as if completed in the day school.

It is especially desirous that the young men of the city who are employed during the day will avail themselves of this opportunity.

To enter the night school, the applicant should be sixteen years of age, and he should first secure work. This may be done by sending written application immediately to "The Department of Industries, A. & M. College, Greensboro, N. C."

NIGHT SCHOOL SCHEDULE.

	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	SATURDAY.
7—8.....	Arithmetic....	Arithmetic....	Arithmetic....	Arithmetic...	Arithmetic.
8—8.30..	English	English.....	Read & Write	Music	Drawing.
8.30—9...	Geography...	Geography...	Agriculture ..	Physiology...	Writing.
9—9.30...	Agr. Phy....	Breeds	Geography...	History	History.

WINTER.

7—8. ..	Arithmetic...	Arithmetic...	Arithmetic....	Arithmetic...	Physiology.
8—8.30...	English	English	English	English	Reading.
8.30—9...	Geography...	Read & Write	Geography ..	Read & Write	Drawing.
9—9.30...	Agriculture...	Drawing.....	Agr. & Chem.	Music.....	History.

SPRING.

7—8.....	Arithmetic...	Arithmetic...	Arithmetic...	Arithmetic...	Drawing.
8—8.30...	English;..	English.....	English.....	English.....	Read & Spell.
8.30—9...	Geography...	Read & Spell..	Geography...	Spelling.....	Music.
9—9 30...	Physiology...	Mat. Constr..	Physiology...	Mat. Constr..	English.

MEDALS AND PRIZES.

1906.

I. R. Ford, for highest average in English during four years, given by Prof. H. E. Hagans, of Goldsboro, N. C.

Jno. M. Rand, prize for the highest average in Agriculture, given by Odell Hardware Co.

J. A. Hawkins, prize for proficiency in Mechanics, given by Odell Hardware Company.

1907.

M. W. Williams, best record in English, the Hagans' Medal.

O. Carter, for best average in Agriculture, given by Odell Hardware Company.

C. G. Davis, for best record in Mechanics, given by Odell Hardware Company.



House in Erection by J. M. Rand ('06) and Brother, Washington, D. C.



East View of Campus.

ORGANIZATIONS.

There are two literary organizations, known as the Agricultural Literary Society, and the Mechanical Literary Society.

The Y. M. C. A. is an organization of great and most wholesome influence among the students.

Agricultural Literary Society.

W. McCaskill President.
E. R. Merrick Vice-President.
A. N. Darden Secretary.
W. M. Keck Treasurer.
John D. Wray Chaplain.
Chas. A. Scott Editor.
M. W. Williams Critic.
Thomas A. Rivera Pianist.

Mechanical Literary Society.

Seaton Baldwin President.
William Alexander Vice-President.
J. L. Crawford Secretary.
J. H. Davis Treasurer.
J. L. Lamb Chaplain.
L. O. Grady Editor.
J. C. Truman Critic.
Geo. H. Williams Pianist.

Y. M. C. A.

T. A. Rivera President.
B. D. Flow Vice-President.
Chas. B. Reid Secretary.
O. Carter Treasurer.

Athletic Association—Officers.

J. C. Truman President.
C. G. Davis Vice-President.
T. A. Rivera Secretary
J. T. Merrick Corresponding Secretary.
J. R. McGimpsey Treasurer.
Edward Smith Captain.
J. L. Eaton and B. D. Flow Custodians.
C. M. Reid Manager.

Sunday School.

Chas. D. Robinson Superintendent.
W. N. Nelson Assistant Superintendent.
E. R. Merrick Secretary.
Chas. A. Scott Assistant Secretary.
T. A. Rivera Pianist.
J. H. Smith Librarian.

Second Team.

J. L. Crawford Captain and Manager.
B. P. Price Custodian.
J. H. Davis Secretary.



A. & M. College Baseball Team, 1905.

LIST OF STUDENTS.

First Year Class.

Abrams, John South Carolina
Atkins, S. G. Chatham County
Atwater, Cleveland Orange County
Alston, C. A. Chatham County
Banks, Arthur Guilford County
Ballance, J. A. Bertie County
Beaty, Chas. J. Mecklenburg County
Berry, Richard Orange County
Berry, George Orange County
Blue, A. W. Montgomery County
Boon, R. N. Northampton County
Bigelow, H. E. Caswell County
Bigelow, O. H. Caswell County
Bridgers, W. A. Forsyth County
Brown, D. E. Onslow County
Bunn, R. E. Wayne County
Busbee, R. L. Green County
Burton, M. E. Person County
Byarm, A. L. Mecklenburg County
Byarm, L. P. Mecklenburg County
Carr, John Pender County
Craig, C. R. Orange County
Craig, W. W. Orange County
Crockett, Ross Buncombe County
Crump, J. L. Davidson County
Cochrane, Robert Catawba County
Cosner, John Catawba County
Coble, C. B. Alamance County
Cooper, L. P. Jones County
Connor, D. P. Lincoln County
Dixon, C. V. Alamance County
Dixon, Wm. Green County
Downs, John R. Forsyth County
Emerson, W. P. Guilford County
Ellison, Benj. Green County
Ellison, George Green County
Evans, W. A. Scotland County
Faison, Walter Wayne County
Fallin, Chas. Virginia
Farrington, A. J. Orange County
Fennell, William Wilson County
Ferrebee, S. J. Currituck County

Forrest, L. F. Stanley County
Foster, Edward Guilford County
Graves, W. R. Guilford County
Graham, W. H. Orange County
Graves, W. A. Rockingham County
Goldston, D. M. Chatham County
Gunn, Zerry New York
Haywood, R. L. Montgomery County
Hairston, J. R. Virginia
Hayley, M. G. Warren County
Harris, J. A. New Hanover County
Herring, J. W. Guilford County
Holt, Wm. Orange County
Howell, George Granville County
Houston, Jones Lincoln County
Ingram, W. H. Anson County
Johnson, A. B. Person County
Jones, J. W. Robinson County
Lawrence, C. W. New Hanover County
Lewis, N. R. Johnson County
Leach, Alexander Scotland County
Luther, Wm. Anson County
Leach, Raymond Buncombe County
Love, M. L. Cabarrus County
Maske, J. D. Alamance County
Maske, J. W. Alamance County
Merrick, John T. Durham County
Meanes, Lawrence Mecklenburg County
Miller, Napoleon Forsyth County
Mitchell, Robah Forsyth County
Mitchell, Henry Connecticut
Morris, Jas. A. Forsyth County
Moore, Wilbert Sampson County
Moore, Lonnie Mecklenburg County
Moore, J. T. Union County
Moore, Isaiah Guilford County
*Murrell, Richard Lincoln County
McCoy, Clarence Anson County
McNeill, Stacy New Hanover County
McIver, F. P. Cumberland County
McClelland, D. E. Scotland County
McKee, John Cumberland County
McVea, Charles Gaston County
Nixon, J. L. Lincoln County
Overton, Henry New York



Football Team, A. & M. College.